

Amendments to the Claims

Please cancel Claims 47, 53, 55-60 and 65 without prejudice to or disclaimer of the subject matter recited therein.

Please amend Claims 43, 45, 49, 51, 61-64 and 66, and add new Claims 67-72 to read as follows.

1. (Withdrawn) A print control apparatus for performing a printing operation in accordance with print data received from an information processing apparatus, comprising:

storing means for storing print data included in a print job;

printing-in-original-layout means for performing a printing process such that one logical page is printed on one printing medium in accordance with said print data;

printing-in-modified-layout means for performing a printing process such that a plurality of logical pages are printed on one printing medium in accordance with said print data; and

deleting control means which retains the print data in said storing means after one of the printing processes is completed and which deletes the print data from said storing means when both printing processes are completed.

2. (Withdrawn) A print control apparatus according to Claim 1, wherein

said printing-in-modified-layout means performs printing in a modified layout in which a plurality of logical pages are printed on one printing medium so as to produce as many sets of copies as specified in the print data; and

said deleting control means deletes the print data from said storing means when the printing in the modified layout for producing the specified number of sets of copies is completed.

3. (Withdrawn) A print control apparatus according to Claim 1, further comprising:

inputting means for inputting a command to specify that printing should be performed in a presentation mode; and

control means for controlling the respective printing means such that when the command specifying the presentation mode is input via said inputting means, both said printing in the original layout and said printing in a modified layout are executed for a single print job, while when the command specifying the presentation mode is not input via said inputting means, printing is executed in a specified layout for a single print job.

4. (Withdrawn) A method for controlling a print control apparatus for performing a printing operation in accordance with print data received from an information processing apparatus, said method comprising:

a storing step for storing print data included in a print job;

a printing-in-original-layout step for performing a printing process such that one logical page is printed on one printing medium in accordance with said print data;

a printing-in-modified-layout step for performing a printing process such that a plurality of logical pages are printed on one printing medium in accordance with said print data; and

a deleting control step in which the print data stored in said storing step is retained after one of the printing processes is completed and the print data is deleted when both printing processes are completed.

5. (Withdrawn) A method according to Claim 4, wherein

said printing-in-modified-layout step performs printing in a modified layout such that a plurality of logical pages are printed on one printing medium so as to produce as many sets of copies as specified in the print data; and

said deleting control step deletes the print data stored in said storing step when the printing in the modified layout for producing the specified number of sets of copies is completed.

6. (Withdrawn) A method according to Claim 4, further comprising:

a inputting step for inputting a command to specify that printing should be performed in a presentation mode; and

a control step for controlling the respective printing step such that when the command specifying the presentation mode is input in said inputting step, both said

printing in the original layout and said printing in a modified layout are executed for a single print job, while when the command specifying the presentation mode is not input in said inputting step, printing is executed in a specified layout for a single print job.

7. (Withdrawn) An information processing apparatus for producing print data to be printed by a printing apparatus, comprising:

spooling means for temporarily storing input data to be printed;

determining means for determining a printing mode which has been set;

image representing data producing means for, in the case where said determining means determines that a predetermined printing mode has been set, producing first image representing data to be subjected to first formatting and second image representing data to be subjected to second formatting, on the basis of the data stored in said spooling means; and

print data producing means for producing one set of print data from the first image representing data and the second image representing data produced by said image representing data producing means.

8. (Withdrawn) An information processing apparatus according to Claim 7, wherein said first formatting is a process of placing one logical page of said data to be printed on one logical page of image representing data and said second formatting is a process of placing a plurality of logical pages of said data to be printed on one logical page of image representing data.

9. (Withdrawn) An information processing apparatus according to Claim 8, wherein

said image representing data is a GDI function;

said image representing data producing means outputs the generated image representing data to image representing means of an operating system; and

said print data producing means produces print data depending upon a printer language in accordance with the GDI function received from the image representing means of the operating system.

10. (Withdrawn) An information processing apparatus according to Claim 7, further comprising: deleting control means which retains the data to be printed in said spooling means after one of the formatting processes is completed and which deletes the data to be printed from said spooling means when both formatting processes are completed.

11. (Withdrawn) An information processing apparatus according to Claim 7, further comprising: printing manner setting means capable of performing setting associated with the first formatting and the second formatting at the same time via a user interface window.

12. (Withdrawn) An information processing apparatus according to Claim 11, wherein said printing manner setting means is capable of setting a page layout in the formatting.

13. (Withdrawn) An information processing apparatus according to Claim 11, wherein
said predetermined printing mode is a presentation mode; and
said image representing data producing means produces presentation copy data to be subjected to first formatting and also produces distribution document data to be subjected to second formatting.

14. (Withdrawn) An information processing apparatus according to Claim 13, wherein
said printing manner setting means is capable of setting the number of sets of distribution copy data; and
said image representing data producing means produces as many sets of distribution copy data to be subjected to the second formatting as the number of sets specified by said printing manner setting means.

15. (Withdrawn) An information processing apparatus according to Claim 13, wherein said printing manner setting means is capable of further specifying whether a memo space is to be inserted into the distribution copy data, and wherein in the

case where a memo space is specified to be inserted, said printing manner setting means produces image representing data including a logical page representing a memo space when producing the distribution copy data.

16. (Withdrawn) A method of controlling an information processing apparatus for producing print data to be printed by a printing apparatus, said method comprising:

- a spooling step for temporarily storing input data to be printed;
- a determining step for determining a printing mode which has been set;
- a image representing data producing step for, in the case where it is determined in said determining step that a predetermined printing mode has been set, producing first image representing data to be subjected to first formatting and second image representing data to be subjected to second formatting, on the basis of the data stored in said spooling step; and
- a print data producing step for producing one set of print data from the first image representing data and the second image representing data produced in said image representing data producing step.

17. (Withdrawn) A method according to Claim 16, wherein

said first formatting is a process of placing one logical page of said data to be printed on one logical page of image representing data and said second formatting is a

process of placing a plurality of logical pages of said data to be printed on one logical page of image representing data.

18. (Withdrawn) A method according to Claim 17, wherein
said image representing data is a GDI function;
said image representing data producing step outputs the generated image
representing data to image representing means of an operating system; and
said print data producing step produces print data depending upon a printer
language in accordance with the GDI function received from the image representing means
of the operating system.

19. (Withdrawn) A method according to Claim 17, further comprising a
deleting control step in which the data to be printed, stored in said spooling step, is retained
after one of the formatting processes is completed and the data is deleted when both
formatting processes are completed.

20. (Withdrawn) A method according to Claim 16, further comprising a
printing manner setting step capable of performing setting associated with the first
formatting and the second formatting at the same time via a user interface window.

21. (Withdrawn) A method according to Claim 20, wherein said
printing manner setting step is capable of setting a page layout in the formatting.

22. (Withdrawn) A method according to Claim 20, wherein
said predetermined printing mode is a presentation mode; and
said image representing data producing step produces presentation copy data
to be subjected to first formatting and also produces distribution document data to be
subjected to second formatting.

23. (Withdrawn) A method according to Claim 22, wherein
said printing manner setting step is capable of setting the number of sets of
distribution copy data; and
said image representing data producing step produces as many sets of
distribution copy data to be subjected to the second formatting as the number of sets
specified in said printing manner setting step.

24. (Withdrawn) A method according to Claim 22, wherein said
printing manner setting step is capable of further specifying whether a memo space is to be
inserted into the distribution copy data, and wherein in the case where a memo space is
specified to be inserted, said printing manner setting step produces image representing data
including a logical page representing a memo space when producing the distribution copy
data.

25. (Withdrawn) A storage medium on which a printer driver program for producing print data to be printed by a printing apparatuses stored, said printer driver program comprising:

a spooling step for temporarily storing input data to be printed;

a determining step for determining a printing mode which has been set;

a image representing data producing step for, in the case where it is determined in said determining step that a predetermined printing mode has been set, first image representing data to be subjected to first formatting and second image representing data to be subjected to second formatting are produced on the basis of said data stored; and

a print data producing step for producing one set of print data from the first image representing data and the second image representing data produced in said image representing data producing step.

26. (Withdrawn) A storage medium according to Claim 25, wherein said first formatting is a process of placing one logical page of said data to be printed on one logical page of image representing data and said second formatting is a process of placing a plurality of logical pages of said data to be printed on one logical page of image representing data.

27. (Withdrawn) A storage medium according to Claim 26, wherein said image representing data is a GDI function;

said image representing data producing step outputs the generated image representing data to image representing means of an operating system; and

said print data producing step produces print data depending upon a printer language in accordance with the GDI function received from the image representing means of the operating system.

28. (Withdrawn) A storage medium according to Claim 25, said printer driver program further comprising a deleting control step in which the data to be printed, stored in said spooling step, is retained after one of the formatting processes is completed and the data is deleted when both formatting processes are completed.

29. (Withdrawn) A storage medium according to Claim 25, said printer driver program further comprising printing manner setting step capable of performing setting associated with the first formatting and the second formatting at the same time via a user interface window.

30. (Withdrawn) A storage medium according to Claim 29, wherein said printing manner setting step is capable of setting a page layout in the formatting.

31. (Withdrawn) A storage medium according to Claim 29, wherein said predetermined printing mode is a presentation mode; and

said image representing data producing step produces presentation copy data to be subjected to first formatting and also produces distribution document data to be subjected to second formatting.

32. (Withdrawn) A storage medium according to Claim 31, wherein said printing manner setting step is capable of setting the number of sets of distribution copy data; and

said image representing data producing step produces as many sets of distribution copy data to be subjected to the second formatting as the number of sets specified in said printing manner setting step.

33. (Withdrawn) A storage medium according to Claim 31, wherein said printing manner setting step is capable of further specifying whether a memo space is to be inserted into the distribution copy data, and wherein in the case where a memo space is specified to be inserted, said printing manner setting step produces image representing data including a logical page representing a memo space when producing the distribution copy data.

34. (Withdrawn) A printer driver program for producing print data to be printed by a printing apparatus, said printer driver program comprising:

a spooling step for temporarily storing input data to be printed;

a determining step for determining a printing mode which has been set;

a image representing data producing step for, in the case where it is determined in said determining step that a predetermined printing mode has been set, first image representing data to be subjected to first formatting and second image representing data to be subjected to second formatting are produced on the basis of said data stored; and

a print data producing step for producing one set of print data from the first image representing data and the second image representing data produced in said image representing data producing step.

35. (Withdrawn) A printer driver program according to Claim 34, wherein

said first formatting is a process of placing one logical page of said data to be printed on one logical page of image representing data and said second formatting is a process of placing a plurality of logical pages of said data to be printed on one logical page of image representing data.

36. (Withdrawn) A printer driver program according to Claim 35, wherein

said image representing data is a GDI function;

said image representing data producing step outputs the generated image representing data to image representing means of an operating system; and

said print data producing step produces print data depending upon a printer language in accordance with the GDI function received from the image representing means of the operating system.

37. (Withdrawn) A printer driver program according to Claim 34, said printer driver program further comprising: a deleting control step in which the data to be printed, stored in said spooling step, is retained after one of the formatting processes is completed and the data is deleted when both formatting processes are completed.

38. (Withdrawn) A printer driver program according to Claim 34, said printer driver program further comprising printing manner setting step capable of performing setting associated with the first formatting and the second formatting at the same time via a user interface window.

39. (Withdrawn) A printer driver program according to Claim 38, wherein said printing manner setting step is capable of setting a page layout in the formatting.

40. (Withdrawn) A printer driver program according to Claim 39, wherein
said predetermined printing mode is a presentation mode; and

said image representing data producing step produces presentation copy data to be subjected to first formatting and also produces distribution document data to be subjected to second formatting.

41. (Withdrawn) A printer driver program according to Claim 40, wherein

said printing manner setting step is capable of setting the number of sets of distribution copy data; and

said image representing data producing step produces as many sets of distribution copy data to be subjected to the second formatting as the number of sets specified in said printing manner setting step.

42. (Withdrawn) A printer driver program according to Claim 40, wherein said printing manner setting step is capable of further specifying whether a memo space is to be inserted into the distribution copy data, and wherein in the case where a memo space is specified to be inserted, said printing manner setting step produces image representing data including a logical page representing a memo space when producing the distribution copy data.

43. (Currently amended) An information processing apparatus for producing print data to be printed by a printing apparatus, comprising:

setting means capable of setting a plurality of output formats for one piece of data to be printed;

producing means for ~~producing, from the data to be printed, a plurality of print jobs including print data corresponding to the plurality of output formats set by said setting means~~ producing a print job comprising a group of job commands and the data to be printed in accordance with said setting means, wherein the group of job commands includes a command for the plurality of output formats; and

execution control means for controlling execution such that printing for the plurality of output formats is executed in accordance with the ~~plurality of print jobs~~ job produced by said producing means.

44. (Original) An information processing apparatus according to Claim 43, wherein said setting means is capable of setting a combination of predetermined output formats.

45. (Currently amended) An information processing apparatus according to Claim 44, wherein ~~said~~ the combination of predetermined output formats includes a first output format in which one page is output on one sheet and a second output format in which a plurality of pages are output on one sheet.

46. (Original) An information processing apparatus according to Claim 43, wherein said setting means is capable of setting an arbitrary combination of output formats.

Claim 47 (cancelled)

48. (Original) An information processing apparatus according to Claim 43, wherein said execution control means transmits the print job produced by said producing means to the printing apparatus.

49. (Currently amended) A method of controlling an information processing apparatus for producing print data to be printed by a printing apparatus, said method comprising:

a setting step capable of setting a plurality of output formats for one piece of data to be printed;

a producing step for producing, from the data to be printed, a plurality of print jobs including print data corresponding to the plurality of output formats set in said setting step producing a print job comprising a group of job commands and the data to be printed in accordance with said setting step, wherein the group of job commands includes a command for the plurality of output formats; and

an execution control step for controlling execution such that printing for the plurality of output formats is executed in accordance with the ~~plurality of print jobs~~ job produced in said producing step.

50. (Previously presented) A method according to Claim 49, wherein said setting step is capable of setting a combination of predetermined output formats.

51. (Currently amended) A method according to Claim 50, wherein ~~said~~ the combination of predetermined output formats includes a first output format in which one page is output on one sheet and a second output format in which a plurality of pages are output on one sheet.

52. (Original) A method according to Claim 49, wherein said setting step is capable of setting an arbitrary combination of output formats.

Claim 53 (cancelled)

54. (Original) A method according to Claim 49, wherein said execution control step transmits the print job produced in said producing step to the printing apparatus.

Claims 55-60 (cancelled)

61. (Currently amended) A control program for causing a computer to perform a method for controlling an information processing apparatus, for producing print data to be printed by a printing apparatus, comprising:

a setting step capable of setting a plurality of output formats for one piece of data to be printed;

a producing step for ~~producing, from the data to be printed, a plurality of print jobs including print data corresponding to the plurality of output formats set in said setting step~~ producing a print job comprising a group of job commands and the data to be printed in accordance with said setting step, wherein the group of job commands includes a command for the plurality of output formats; and

an execution control step for controlling execution such that printing for the plurality of output formats is executed in accordance with the ~~plurality of print jobs~~ job produced in said producing step.

62. (Currently amended) A control program according to Claim 61, wherein said setting step is capable of setting a combination of predetermined output formats.

63. (Currently amended) A control program according to Claim 62, wherein ~~said the~~ combination of predetermined output formats includes a first output format in which one page is output on one sheet and a second output format in which a plurality of pages are output on one sheet.

64. (Currently amended) A control program according to Claim 61, wherein said setting step is capable of setting an arbitrary combination of output formats.

Claim 65 (cancelled)

66. (Currently amended) A control program according to Claim 61, wherein said execution control step transmits the print job produced in said producing step to the printing apparatus.

67. (New) An information processing apparatus according to Claim 43, wherein the print job is a single job, and said execution control means comprises converting means for converting the data to be printed into print data corresponding to the plurality of output formats more than once in accordance with the group of job commands in the print job so as to execute printing.

68. (New) An information processing apparatus according to Claim 43, wherein said producing means adds a command to specify the plurality of output formats into the group of job commands in a single job, when the plurality of output formats is set by said setting means.

69. (New) A method according to Claim 49, wherein the print job is a single job, and said execution control step comprises converting the data to be printed into

print data corresponding to the plurality of output formats more than once in accordance with the group of job commands in the print job so as to execute printing.

70. (New) A method according to Claim 49, wherein said producing step adds a command to specify the plurality of output formats into the group of job commands in a single job, when the plurality of output formats is set in the setting step.

71. (New) A control program according to Claim 61, wherein the print job is a single job, and said execution control step comprises converting the data to be printed into print data corresponding to the plurality of output formats more than once in accordance with the group of job commands in the print job so as to execute printing.

72. (New) A control program according to Claim 61, wherein said producing step adds a command to specify the plurality of output formats into the group of job commands in a single job, when the plurality of output formats is set in said setting step.